## Instructions for Installing R and RStudio

### Contents

These instructions are to download R and RStudio so that you can use them locally on your machine.

- 1. Download R. Go to the main R page.
- 2. Click on "download R".
- 3. Pick a CRAN mirror, any CRAN mirror. I usually pick UCLA, because, GO BRUINS!
- 4. Choose your operating system
- 5. Then click on the most recent version on R, at the time these instructions quere created, R-3.4.1.pkg
- 6. Finish installing R as you would any new application. This procedure will vary by operating system.
- 7. Download RStudio. Go to this page.
- 8. Click the green "Download" button under the free column.
- 9. Pick your operating system.
- 10. Finish installing RStudio as you would any new application. This procedure will vary by operating system.
- 11. You will ALWAYS open the RStudio application to work, never R. It's just that you need R installed to use RStudio—R is running in the background whenever you use RStudio.
- 12. To install the anticipated packages you'll need for this workshop, run the following code:



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CRAN

R Project

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Conferences

# The R Project for Statistical Computing

#### **Getting Started**

R is a free software environment for statistical computing and graphies. It compiles and runs on a wide variety of UNIX platforms, Windows and MacOS. To download Riplease choose your preferred CRAN mirror.

If you have questions about R like how to download and install the software, or what the license terms are, please read our answers to frequently asked questions before you send an email.

#### **News**

R version 3.4.2 (Short Summer) prerelease versions will appear starting Monday 2017-09-18.
 Final release is scheduled for Thursday 2017-09-28.

#### Figure 1:

nttp://cran.ma.imperiar.ac.uk/

http://cran.wustl.edu/

USA

https://cran.cnr.berkeley.edu/ http://cran.cnr.berkeley.edu/ http://cran.stat.ucla.edu/ https://mirror.las.iastate.edu/CRAN/ https://mirror.las.iastate.edu/CRAN/ https://ftp.ussg.iu.edu/CRAN/ http://ftp.ussg.iu.edu/CRAN/ http://rweb.crmda.ku.edu/cran/ http://rweb.crmda.ku.edu/cran/ https://cran.mtu.edu/ http://cran.mtu.edu/ imperial College London

University of California, Berkeley, CA
University of California, Berkeley, CA
University of California, Los Angeles, CA
Iowa State University, Ames, IA
Iowa State University, Ames, IA
Indiana University
University of Kansas, Lawrence, KS
University of Kansas, Lawrence, KS
Michigan Technological University, Houghton, MI
Michigan Technological University, Houghton, MI

Washington University, St. Louis, MO

Figure 2:

The Comprehensive R Archive Network

Download and Install R

Precompiled binary distributions of the base system and contributed packages, Windows and Mac users most likely want one of these versions of R:

- Download R for Linux
- Download R for (Mac) OS X
- Download R for Windows

R is part of many Linux distributions, you should check with your Linux package management system in addition to the link above.

Source Code for all Platforms

Windows and Mac users most likely want to download the precompiled binaries listed in the upper box, not the source code. The sources have to be compiled before you can use them. If you do not know what this means, you probably do not want to do it!

• The latest release (Friday 2017-06-30, Single Candle) R-3.4.1.tar.gz, read what's new in the latest version.

Figure 3:

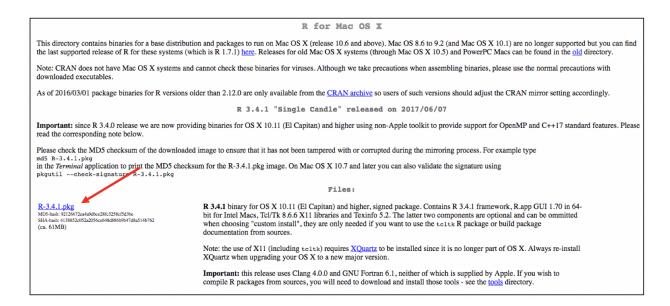


Figure 4:

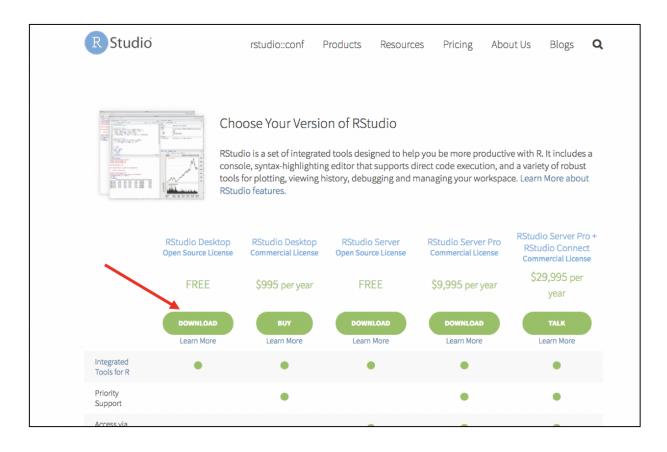


Figure 5:

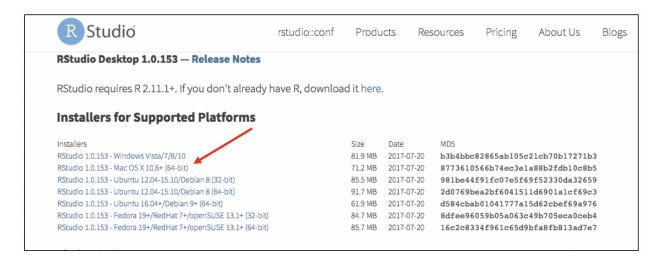


Figure 6:

```
lapply(p_needed, require, character.only = TRUE)
install_github("RandiLGarcia/dyadr")
library(dyadr)
```

13. Enjoy!